

THE EVENING WORLD'S RADIO PHONE SERVICE COLUMN.

By Capt. Robt. Scofield Wood
(D. F. C., M. C., Croix de Guerre
with four palms; formerly Commander
10th Squadron, Royal Air Force).

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RADIO TO AND FROM TRAIN A
SUCCESS.

A chapter was written into the history of radio communication and radio-riding simultaneously yesterday when the "Cornell Special Radio Express" successfully completed its much heralded trip from Ithaca to Hoboken. Everything went off like clockwork and radio has come to stay as a part of the regular equipment for the Lackawanna Railroad.

The story of the remarkable trip really starts with the train leaving Hoboken on Tuesday night, when, with its complement of radio engineers and enthusiastic fans, it puffed its way toward Ithaca, at the head of Lake Cayuga, 247 miles away. Throughout the night the enthusiastic crowd labored away tuning, adjusting and putting the radio instruments, upon which so much depended, in condition.

David Welles Richardson, the young Princeton senior, and G. Donald Murray, familiarly known as "Don," with the assistance of Ted Sisson, another Princeton man; J. J. Graff, radio engineer of the Lackawanna; William Murray and Theodore Simmons, are the people responsible for the success of the receiving and transmitting by wireless telephony messages and music from a train dashing along at the rate of seventy miles an hour.

The car equipment used consisted of two coaches, one of which was a buffet car, and there was a six-wire 45-foot aerial measuring about 120 feet. The aerial was run along the length of both cars and elevated about eighteen inches above the roof. To this aerial was attached a simple receiving set consisting of a detector tube and two steps of radio amplification, tuned and adjusted to perfection. A power amplifier and half a train load of "speakers" completed the receiving instruments. Paul Goetz's transatlantic receiving set was also on board, and while it did not share in the honors of yesterday's success its presence lent prestige to the affair, to say the least. The transmitting equipment was a small set with a maximum radius of fifty miles, operating under ideal conditions. Despite its diminutive range it did some wonderful work and shared the honors of the occasion with its counterpart, the receiver.

The trip down was really remarkable, every minute marked by the indelible sign of success. At 12:30 o'clock sharp the train pulled out of Ithaca, with the Cornell University Radio Station, B15, on a wave of 150 metres broadcasting some "Old Fashion Melodies" on a phonograph. The music, which was developed into a regular programme, was received perfectly by the train set, amplified and put through a speaker, and thence to the eagerly listening crowd of 300 students, by means of a loud speaker. This programme was enjoyed for over half an hour by everybody who could crowd into the buffet car.

As to the passengers, there was a large percentage of "fair co-ed" among the "Four Hundred." Four coaches was the maximum seating capacity of the train and 400 were there.

At 1:15 o'clock everybody was agreeably surprised by hearing the familiar call of Schenectady broadcast station of the General Electric, which was over 200 miles away. This station, which operates on a wavelength of 360 metres, gave a special concert for the students and every note of it was enjoyed up to their signing off at 3 o'clock.

During the intermissions of the long musical programme from Schenectady many amateur operators en route were communicating with the train by means of small transmitting set and some interesting conversations in code and voice were held. Both reception and transmission was almost perfect, and not once was it necessary to repeat or ask to have repeated any of the "verbal dot and dash traffic." During the trip a special message sent over the "Amateur Relay Route" was received from the Lackawanna Superintendent's office. This message was delivered by radio just as the train was speeding through Owego, and during one of Schenectady's intermissions.

Shortly after leaving Binghamton, while counting off the miles between stations in the neighborhood of eighty to the hour—S. B. T. O., an amateur, cut in and rendered some music to liven up the interest for the enthusiastic travelers.

Among the students were several members of Cornell's Big Four Jazz Orchestra, on their way to New York to furnish part of the high speed music for the intercollegiate dance which is to be held at the Hotel Commodore to night. A. O. Washburn of the class of '23, and George W. Tarn, '22, played some saxophone melodies, assisted by C. W. Deane, '23, who picks a mean banjo, and James Lynch, '23, a tenor. These were broadcast by the set on the train and picked up by many of the listening amateurs along the route, who asked for more.

Not only were the radio folks interested in the outcome of the experiment, but people in the little villages were lined up to see the Radio Special fly through. At several of the towns where the train stopped for a few seconds the natives were making inquiries about the radio tests.

Aside from the official wireless party on the trip there were several telephone, telegraph and wireless engineers from many of the roads all over the country. J. L. Homer, General Eastern Passenger Agent of the D. L. and W. road, said after the tests had been completed: "Radio just as the train new departure in railroad communication and from the rate we are traveling in this speedy age I do not think the time is far distant when trains will be run from power received from the air."

several hundred miles away, was heard talking to some friend in Georgia, and V. H. a spark set, located in Missouri, to say nothing about stations in Maine, Massachusetts and Florida, were heard. While fading was noticeable on the return trip it was in no way objectionable, as the absorption of the music or signal by the high hills and mountains only served to soften the tone. There were some directional effects noticed when the train was running broadcast to the broadcasting stations, but the music was always to be heard.

One of the most startling effects of the trip was that the music and speech broadcast from WJZ at Newark was received and listened to while the train was passing through a long tunnel just outside of Hoboken. This proves conclusively that radio's penetrating power is only partly understood at the present time and it has many uses not yet thought of.

During the last hour of the journey a special greeting was sent by radio from the Radio Crew of the Cornell Special to The New York Evening World, notifying the paper of the success of the experiment.

The whole experiment and trip was enjoyed by everybody much to the satisfaction of a weary, but happy little body of enterprising radio enthusiasts who have spent every available minute preparing for this experiment.

The immediate future of radio communication from and to trains in motion depended upon the outcome of this first. It was successful in every sense of the word and the little band that "put it across" deserve a world of credit.

CRONKHEIT TO LECTURE.

Saturday night, April 8, Albert Cronkheit of 1 BCG fame will deliver a lecture on Master Oscillators to members of the Hudson Radio Club at No. 339 West 86th Street.

PASTOR TAKES IT EASY.

The Fort George Presbyterian Church has announced that the new power receiving apparatus has been installed in the church and that the sermon delivered will be the usual Radio Chapel Service from WJZ. Loman H. Hartley, pastor of the church, which is located at 186th Street and St. Nicholas Avenue, extends an invitation to all radio lovers to attend the initial sermon.

W J Z (Newark) 360 Metres

Features of the day:
Agricultural reports at 12 M. and 6 P. M.
Arrington official time at 11:55 A. M. to 12 M. and 9:55 P. M. to 10 P. M.
Shipping news at 2:05 P. M.
Music every hour on the hour from 11 A. M. to 6 P. M.
Weather reports at 11 A. M., 12 M., 5 P. M. and 10:01 P. M.
6:30 P. M.—C. E. Le Massena's opera, "Pandora," will be broadcast under the personal direction of the composer, who will give an exposition of the plot and dialogue. All seventeen musical numbers will be rendered by the following cast: Pandora (soprano), Mrs. C. E. Le Massena; Hope (alto), Miss Marion Heim; Epimetheus (tenor), Mr. Marion Heim; Prometheus (bass), Mr. William H. Henningsen. The Edith Rose Trio (violin, cello and piano) will provide the instrumental numbers and accompaniments, and a selected choir will sing the choruses. This opera is especially interesting to young folks and is presented at an early hour for their accommodation. Courtesy Acolian Company.

7:30 P. M.—"Little Jack Rabbit and the Fox," by David Corey, New York Evening Mail.
7:45 P. M.—"The Priceless Ingredient in Food and Drug Products," by Wm. R. M. Wharton, Bureau of Chemistry, U. S. Department of Agriculture.
8 P. M.—Concert by the Roseland orchestra of Newark under the leadership of Joseph Murray.
8:15 P. M.—Recital by Esther Dale, soprano, recently soloist with the Boston Symphony orchestra, and teacher of singing at Smith College, who recently scored a great success by recitals in New York and Boston. The programme includes "Alleluia," from "Exultate," Mozart; "Volkslieder," Brahms; "Les Cigales," Chabrier, and "The Beloved Stranger," Herreshoff.

In addition to the above programme a concert by the Boston Instrumental Trio will be given.

K D K A (Pittsburgh) 340 Metres

12:30 to 12:59 P. M.—Noon hour, Lenten services from the Trinity Church, Pittsburgh.
7:30 P. M.—Bedtime story for the children.
7:45 P. M.—Government market reports and a report of the New York Stock Exchange.

8 P. M.—A Forecast of Business Conditions, by Clark Hammond, Vice President of the Columbia National Bank, Pittsburgh.
8:30 P. M.—Music.
9 P. M.—News.
9:05 to 9:30 P. M.—Music.
9:30 P. M.—Address by Dr. McCullough which will be delivered to-night at a banquet of the Kiwanis Club of Pittsburgh, at the William Penn Hotel. (To-night will be "Canadian Night" at the Kiwanis Club.)

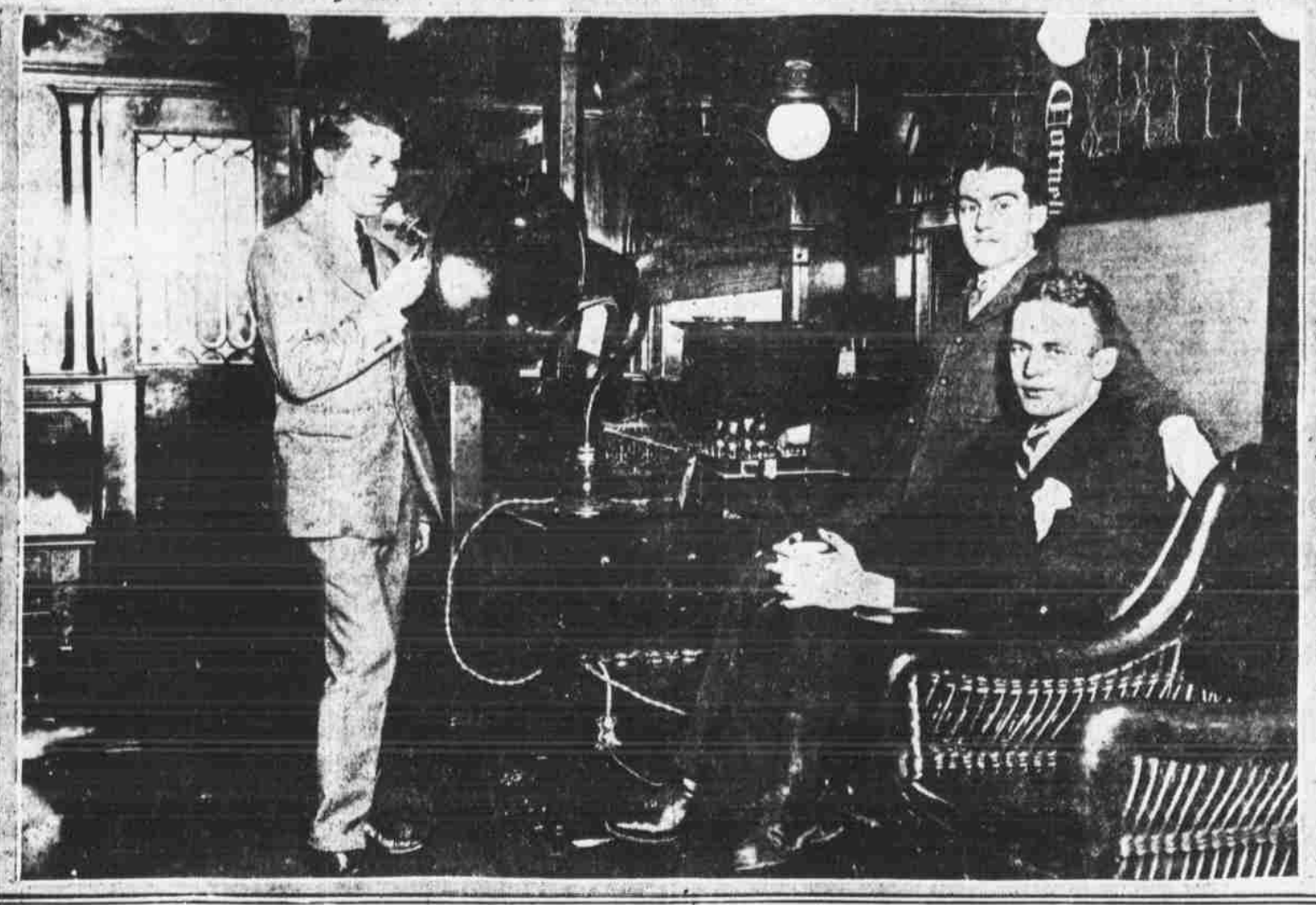
9:55 to 10 P. M.—Arrington time signals. Musical programme by the Cadman mixed quartet, Mary Cornelius, soprano; Nellie Gretton, contralto; Robert Reed, tenor; Fred McHugh, baritone; Lucile Gregg, accompanist and coach; J. Merle Brallier, pianist.

W W G (New York) 360 Metres.

11:40 A. M.—Trio, Afro-American Spirituals.
12:40 P. M.—Solo by George Jones Jr.
1:40 P. M.—American music as recorded by the Ampico.
2:40 P. M.—Banjo solos by Fred Jennings.
3:40 P. M.—Trio, Afro-American Spirituals.
4:40 P. M.—Solo by George Jones Jr.

HARDING TO MAKE CONVENTION SPEECH BY RADIO.
WINSTON-SALEM, N. C., April 6.—Announcement was made to-day that arrangements were being perfected for President Harding to deliver by radio a message to the North Carolina Republican convention which meets here April 12.

Princeton Boys Listening to Wireless Phone Music On Special Radio Train From Ithaca to Hoboken



E. G. Sisson, D. W. Richardson, G. D. Murray. CENTRAL NEWS PH.

BILL IN CONGRESS MAY STRENGTHEN P. S. COMMISSIONS

Would End Appeals From Rulings to State and Federal Courts.

A bill is now before the Judiciary Committee of the House in Congress designed to give Public Service Commissions judicial independence and what measure of authority is necessary to compel obedience to their rulings.

As pointed out in The Evening World yesterday, the Public Service Commission of this State, created fifteen years ago, has been unable in recent years to do anything constructive through the weakness in the law. Commission decisions are invariably taken to State or Federal courts by the defeated party, and as a result utility boards are looked upon as a bonanza for lawyers and stenographers.

Congressman Isaac Bacharach, former Mayor of Atlantic City and now Representative from the Second District of New Jersey, introduced on Jan. 31 of this year the bill that would give commissions the status of a court. He had had a great deal of experience with the Public Service Corporation which controls utilities in New Jersey and with the commission and saw the need of removing Federal Court interference.

Entitled "To supplement and amend an act entitled 'An Act to clarify, revise and amend the laws relating to judiciary' and known as the Judicial Code, and to limit the jurisdiction of District and Circuit Courts in certain cases," the Bacharach bill reads:

"Be it enacted by the Senate and House of Representatives of the United States of America, in Congress assembled, that no District or Circuit Court of the United States, or Judge thereof, shall have jurisdiction to entertain any bill of complaint to suspend or restrain the enforcement, operation or execution of any order made by an administrative board or commission in any State, acting under and pursuant to the statutes of such States, where such order was made after hearing upon notice, nor to entertain jurisdiction of any bill of complaint to suspend or restrain the enforcement, operation, or execution of the statute under which such order was made in any case where under the statutes of the State provision is made for a judicial review of such order upon the law and facts;

"Provided, That nothing herein contained shall limit or affect in any manner the jurisdiction of District and Circuit Courts of the United States, and Judges thereof, in matters affecting inter-State commerce, nor to prohibit such court or courts, or the Judges thereof, from entertaining any bill of complaint to suspend or restrain the enforcement, operation, or execution of any order made by an administrative board or commission in any State, in so far as such order affects inter-State commerce."

KING ALEXANDER ILL.
BELLGRADE, April 5.—King Alexander has been confined to his room since yesterday. The nature of his illness has not been given out.

Flirtations by Jail Prisoners Are Helped Along by This Warden

Lots of Romances Among Inmates There, He Says, So Post Office Is Installed With Love-Letter Censorship.

WILMINGTON, Del., April 6.—Flirtations between men and women prisoners at the New Castle County Workhouse have reached such a point that Warden Mordell S. Plummer, rather than have them exchange notes outside to have them hidden in cakes, pies and candy sent later to the girls.

"You can't blame the men for falling in love. There are some pretty girls in the workhouse. After they serve their time some of them may make good wives. I know of one case where at least ten men have written they are ready to die for one girl imprisoned here."

"Wink at the underground letters? I guess not. We have an honor system, so I announced there would be a post office in the workhouse, and prisoners could write to each other. Of course the letters are censored. We just use common sense."

"Notes were hidden in food, in ar-

ticles of clothing, or carried by 'trusties,' he said. "Sometimes men sent notes outside to have them hidden in cakes, pies and candy sent later to the girls."

"It was the logical thing to do," said the warden. "Because men or women are in jail is no reason to think they won't fall in love. Lots of romances begin in prison."

Warden Plummer, in an address before the Wilmington League of Women voters, told of having discovered an "underground mail system" in the workhouse.

"Notes were hidden in food, in ar-

Youthful Hunters Bait Trap For "Flapper Ghost" but in Vain

Pretty "Wraith" With Bobbed Hair and Pencilled Eyebrows Appears Only to Staid Man of Family.

MILLERTON, N. Y., April 6.—All the amateur ghost hunters hereabout are trying to solve the mystery of Theron Snyder's "flapper ghost."

Some of the younger men frankly admit they want to steal her, for she is pretty, has bobbed hair and is enhanced through the use of lip stick and eyebrow pencil.

Mr. Snyder, middle-aged and father of a family, does not believe in ghosts and does not care for flappers, but he can't deny what his eyes behold. Almost every night there is a tapping

as if on the glass of a second-story window. Then can be seen mistily through the glass the flapper wraith—a pert, pretty face that merely looks, several members of the family have seen it, but can't catch it.

Immediate search of the ground reveals no footprints or evidence of a ladder having been used by the ghost. Certain young investigators have tried to lure the flapper ghost from the Snyder household by placing bon bons, and even cigarettes and bottles of something to drink on their window sills, but without success.

Lett Town in Huff 12 Years Ago; Back Now Ready to Be a Booster

D. Randolph Cook Returns and Says Nice Things of Manasquan That Wouldn't Have Him as Mayor.

After running for Mayor of Manasquan, N. J. and other offices in that town unsuccessfully, but in such spectacular fashion the town never has been the same since, D. Randolph Cook disappeared twelve years ago. His wife and three children stayed on at the Cook place and the city could not cut a slice off his Main Street property to make it conform with the curb line. In his absence no one was qualified to file the assent.

Then he came home last Tuesday night, walked right into Council meet-

ing with a bag of golf clubs over his arm, said hello to everybody and told the Council it had made a great place of Manasquan. The tall, gray haired man stunned the old timers by his appearance. They just sat and followed him with their eyes. He said he has been in China and expects to return to that country soon as representative of American financial interests.

Cook was Secretary-Treasurer of a large printing concern and an officer of the 71st Regiment and personally conducted parties of visitors to the ar-

mory, which made him famous for his hospitalities. Clamdiggers who had voted for him to be Mayor of Manasquan were his guests on some of those parties, which came to New York on Pullman cars hired by Cook.

His property at last will conform to the curb line, for he has agreed to the cut of eight feet from its front. One of his old opponents and the object of his bitterest fight was Lloyd C. Middle, now Mayor of Manasquan. Their reunion was hearty.

SAYS GENOA MUST ACT ON REPARATIONS

German Chancellor Declares Reform Can Come Only When Burden Is Lightened.

BERLIN, April 6.—The Goena Conference cannot disregard the question of reparations," Chancellor Wirth of Germany declared in an interview to-day on the eve of his departure for Italy.

"The conference may talk of reform of Germany," the Chancellor added, "and suggest the help of a foreign loan. This is a practical idea, but such a loan requires a basis, and such a basis can only be found if reparations payments are brought within a limit economically bearable by Germany."

"Germany is ready to take her part in forming reconstruction plans, but the conference must not close its eyes to basic questions if it would succeed."

The Chancellor also discussed Germany's inflated currency, with special reference to Lloyd George's speech in Commons on Monday. He declared this question was not primary.

"America's absence from Genoa, we Germans feel, merely postpones an inevitable meeting of those who aim at world reconstruction," he concluded. "However, the conference promises to be important for Europe, because for once we meet to negotiate on economic problems, unshaded, I hope, by clouds of war hate, and laying aside all sentiments."

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It is not difficult to build your own receiving set and quite inexpensive. Here are some parts you need. We have a varied stock of them:

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FRIDAY SATURDAY

New Fashions for the Nearing Easter

Misses' Easter Cape Frocks

Special 21.50



The cape frock is so delightfully adjustable to weather conditions that she who possesses one is equally well outfitted for a warm or a chilly Easter. The model pictured combines navy or grey Canton crepe with collar of henna crepe, which also lines the long panel-strips of the skirt. Sizes 14 to 20 years and to 38 bust.

A plaited-panel dress for women also comes at this price.

SPECIAL PURCHASE Misses' Dresses

Special 15.75

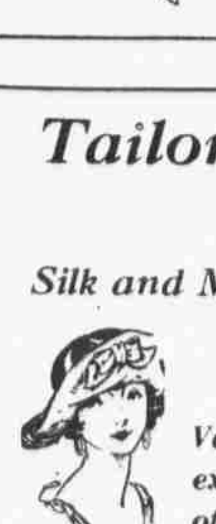
Many samples in this lot, including dresses of krepe-knit in various colors. Canton crepe dresses in beige, the new shade of bright-eye blue, are most attractively bound with narrow black cire ribbon.



Misses' and Women's Sport Suits

Special 27.50

Pictured is a tweed suit, one of a number of attractive novelty styles at this price. Collar and trimmings are angora, which also lines the clever little cut-out pockets on either side.



Tailored Trimmed Hats

Silk and Milan Hemp Combined

Special 1.95

Various styles copied from more expensive hats, in a large variety of Spring colors—grey, periwinkle, carmen, red, sand, brown and other shades.

Trimmed Hats—Spring colors and styles—were \$10.00..... 6.27

Trimmed Hats—dress and tailored models—were \$2.98..... 1.95

Girls' Trimmed Hats—rolled brims, mushroom and poke styles—were \$1.57 and \$1.94..... .85

Trimmed Hats—smart dress and tailored models—were \$4.94 and \$7.50..... 3.50